

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-295075

(43)Date of publication of application : 09.11.1993

(51)Int.Cl. C08G 18/50

A61F 2/02

A61L 17/00

C08G 18/65

(21)Application number : 04-129695

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(22)Date of filing : 22.04.1992

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(54) PRODUCTION OF POLYURETHANE

(57)Abstract:

PURPOSE: To obtain the subject polymer having excellent biodegradability, flexibility, elasticity and durability and suitable as medical materials such as artificial skin by reacting a lactide-type polyol obtained by a specific method with an organic diisocyanate.

CONSTITUTION: A lactide-type polyol is produced by the ring-opening polymerization of a hydroxyl compound having ≥ 2 hydroxyl groups (e.g. ethylene glycol and bisphenol A) and a lactide (e.g. D-lactide or L-lactide) in the presence of a catalyst (preferably composite metal cyanide complex catalyst) preferably at 0–150° C. The lactide-type polyol is made to react with an organic diisocyanate (e.g. phenylene diisocyanate) and optionally a chain extender having a low molecular weight to obtain the objective polymer. The amount of the catalyst to be used in the production of the lactide-type polyol is preferably 100–1,500ppm based on the initiator used in the reaction.